DCA13MR002 Conrail - Shared Assets Derailment/Hazardous Material Release Paulsboro, New Jersey November 30, 2012

Hazardous Materials Group Factual Report

ATTACHMENT 13 - CERTIFICATE OF CONSTRUCTION FOR OCPX 80323 AND 80305

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

	All Eloni								Page 1 of 2	
1	APPROVAL REQUESTED OF:	PRECEDENT	2 TYPE: CONSTRUCTIO	N	WELDED REPAI	RS	3 AARNO	****	66049A	
		NON-PRECEDENT	ALTERATION		OTHER		4 DATE		NUARY 19, 2006	
			CONVERSION				5 APPLICANT'S N		5012	
6	APPLICANT: TRINITY	INDUSTRIES, INC.					7 TANK SPECIFIC		OT 105A300W	
	P.O. BOX		DALLAS, TEXAS				8 STENCILED SPE		OT 105J300W	
9	9 REPORTING MARKS & CAR NUMBERS OCPX 80301 thru OCPX 80375 10 NUMBER OF CARS 75									
					·					
	Initial commodity	SEE NOT	ES		Density, lb.			7.60	(75 5 1) () (4)	
13 Full water capacity, gal. 24,500					14 Dome capacity or outage, gal. Per DOT 173.24b(a)(1)					
15	5 Material type & grade - heads AAR TC128 Gr. B NOR			16 Material type & grade - shell AAR TC128 Gr. B NORM.						
17	Material thickness - heads, in. 0.5625				18 Material thickness - shell, in. 0.5625					
	Lining type NONE			20 Inside diameter - center, in. 116						
21	Inside diameter - end rings, in. 116			22 Head radius, main, in. (if not 2:1) 2:1 ELLIPSOIDAL						
23	Test pressure, psig		300	24 Insulation type SEE PAGE 2						
25	Insulation thickness, In. 4			26 Thermal conductivity, Btu-in/hr-ft²-°F 0.257						
27	Type and number of pr	essure relief devices	ONE VALVE	28 Pressure relief device start-to-discharge, psig 247.5						
29	Pressure relief device flow cap'y., scfm reg'd. 281 *			30 Pressure relief device flow capacity, scfm, actual 22,598						
31	Tank surface area, sq. ft. 1480				32 Underframe or stub sill type Stub SillTRN				TRN 023	
33	Center of gravity, loa	88.13	34 Est. light weight, lb.				80,200			
35	AAR clearance diag	ram	С	36	Rail load lin	nit, ib.		263,000		
37	Truck capacity, tons		100		Head Shield	ds Full	diameter1/2	" thick stee	∋I ASTM A572-50	
NOTES: Vinyl Chloride, Inhibited and products authorized in DOT										
	Part 173 for v	which there are no speci-	al commodity requir	'e-		rig. Cert. uilder				
	ments and no class of car.	onregulated commodities	ıs		ate			<u>,</u>		
	ciass of car.					ormer ladi	ng			
*Gi	= 5,485 for Vinyl Chloric	de at start-to-discharge pre:	ssure of 247.5 psig pe	r Ta	ıble A5.					
			Drawing N	1 -			he following	orior appro	vals apply:	
	The Following I	Drawings Apply	Drawing	MUII	inei	Drawir	ng Number	Applicat	tion/Certificate No.	
39	General Arrangement		D-41774	D-41774						
40 Tank Arrangement			D-43805 SH. 1							
	Reinforced Openings	and a separation are not upon orbit and Sabel Sabel Sabel and and another orbit orbit orbit.	D-43805 SH. 2/		4 & 3					
42 Bolster & Draft Sill Arrangement			D-340355-01 SI		1. 1A & 2A			LO	56043	
43	Fittings Arrangement	The state of the s	D-54133 SH. 1/		A, 2A & 3A					
44 Manway Assembly			D-340016G					L9	96083A	
	Protective Housing	a nga ngagaray sadihan sarandisah sali at ng isa anti niti isa ba'	D-443514A							
46	Venting, Loading and D	Discharge Valves	See Page 2							
47 Pressure Relief Devices			MIDLAND A-34		4247			PRD 022020		
48 Heater Systems (Int Ext)			NONE							
49 Gauging Devices			MIDLAND B-61					E0	02003	
50 Bottom Outlet Valve			NONE				***			
51 Jackel Anchor			D-46344B					L9	86040	
52	Manway cover	and the second second second second to the second s	D-543697A							
53 Calculations			D-343978A					LO	36013	
54	Tank Qualification Drav	wing	D-41789							
RE	VISIONS:	mate and a supporter and and and a supersystems and a supersystems.			APPLICAT	ION BY:	William	R. Bitting		
		Correct drawing errors on dr	awings		I certify that the	foregoing c			and AAR requirements	
)-43805 sh. 2 & D-54133 sh	•						e, and the DOT Railroad	
	Safety Appliance Standards									
SIGNATURE										
					TITLE		Senior Desi	gn Engine	eer /	
AP	PROVAL - AAR Tani	k Car Committee		. 1	วกกร			PII**		
		D	FEB 2	7	Հսսս		. با سالم			
		Date Approv	/ed			Sin	nature on beha	of Tank C	Car Committee	
CF	RTIFICATION: The	cars enumerated below co	nform to the above an	יחים	ved description					
		egulations, Rules of Interch								
	Construction will be furnished to the owner and others as required by 49 CFR Part 179 5 before these cars are placed in service									
	ials and Car Numbers:					** P	II **		- 10-01	
	B KOND	301-80373	5		Name —	- ~~	U/-	XDa	ite 3-2-06	
_	D)************************************									
For	Form AAR 4-2 Revised 12/1/00 Title Title Title									

AAR Number L066049A
Applicant's No T05012

Date: January 19, 2006

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

<u>LINE 24 - INSULATION</u>: Four inch thick layer of Glasswool Blanket over 1/2" thick Ceramic Fiber with the total thickness compressed to 4"

Cars are constructed in accordance with all applicable DOT/TC and AAR requirements. Car body structure meets the requirements of S-286-2002.

APPLICATION BY William R. Bitting

I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards.

SIGNATURE _____

TITLE

Senior Design Engineer

FEB 2 4 2006

APPROVAL AAR Tank Car Committee

Date Approved

2006

(Signature) on behalf of Tank Car Committee Page 2 of 2

	OCPX 80350, 80365, 80369-80371, 80373-	1			
	80375				
Quote Number	2004/432	J File / Rev / Date / Engineer	T05012A / 1 / 3-15-2006 / MLV		
Model Number	257-105J300	RFQ Date / Engineer	11/17/2004 / WJW		
Customer	Occidental Chemical Corp.	Number Of Cars	8		
Capacities	· · · · · · · · · · · · · · · · · · ·				
Shell Capacity	= 24,500 Gal.	Sized For	Vinyl Chloride, Stabilized		
Outage - 2%	N/A	Tank Specification	DOT105A300W		
Maximum/Effective	182,800#	Stenciled Specification	DOT105J300W		
Capacity					
Allowable Weight/Gal.	N/A	Est. Light weight	80,200#		
Clearance Diagram	Plate C	Maximum Gross Weight	263,000#		
Car Dimensions	=				
Tank	117 1/8" OD X 41'-5 1/4" Tan to Tan	Head Material & Thickness	9/16" AAR TC128 Gr. B Norm.		
Length OCPF	52' 0 3/4"	Shell Material & Thickness	9/16" AAR TC128 Gr. B Norm.		
Slope	1/16" Per Foot	Truck Centers	38' 6 1/4"		
Top Fittings	=				
Manway	20" I.D. Normalized Flued A516 Gr. 70 Nozzle	Manway Cover	Bolted ASTM A516 Gr. 70 Normalized		
Air/Vapor Connection	2" Flanged X Screwed Midland A-720 Angle Valves w/ 2" CS Plugs And A-146 SS Check Valve Below Cover Plate	Protective Housing	34" ID CS Shell w/ CS Cover Hinged 45 Deg. Off The Long. Centerline To The BR End w/ Lift Assist		
Discharge Connection	Two 2" Flanged X Screwed Midland A-720 Angle Valves w/2" CS Plugs	Discharge Pipe	(2) 3" Sch 80 316L SS Pipes w/ Midland A167 SS Check Valves And CS Guide & Pads		
Gage Device	Midland B612S w/ 48" Gaging & Threaded Mounting (7.6# / gal)	Outage Scale	None		
Safety Relief	Valve, 247#, Midland A-34247	Vacuum Relief	None		
Sample Line	3/4" Sch 80 304L SS Pipe w/Midland A257 Needle Valve & A119W Check Valve	Thermowell	3/4" Nitronic 60 Plug		
Fittings Nozzle	None				
Bottom Fittings	=				
Outlet Valve	None	Outlet Saddle	None		
Outlet Fittings	None	Sump	None		
Gasket's/O'Rings	= .				
Manway Cover	Durlon 9000	Safety Relief Gasket/O'Ring	Durlon 9000 / Viton A		
Air Inlet	Durlon 9000	Outlet Valve	None		
Discharge Conn.	Durlon 9000	Outlet Fittings	None		
Gage Device	Durlon 9000 / Buna-N weather seal o-ring	Thermowell Cap	None		
Coils	__ None	Inlets / Outlets	None		
Insulation & Jacket	= 411 File and a 20 con 470" 2 con 15 File	testes the edge.	4/0II A 570 O - 50 / 44 O - 00		
Insulation Type	4" Fiberglass Over 1/2" Ceramic Fiber	Jacket Head / Shell	1/2" A572 Gr. 50 / 11 Ga. CS		
Platforms	= Divided Tons 0.4/00/04/de V. 011 age 00	E. I	O' 44 4/00 1854- W F-00 18540		
Тор	Divided Type 9-1/2" Wide X 8' Long CS Plank Grating w/ Side Ladders (Hemple 418US Non-Skid On Jacket Between Grating)	End	Single 11 1/2" Wide X Full Width Long CS Plank Grating		
Underframe					
Type & Section	Type 23 Stub Sill	Draft Gear	M-901-E Miner TF880		
Brakes	Body Mounted w/10 X 12 Cyl. And Vertical Wheel Handbrake	Couplers & Yokes	SE60EE / SY40AE		
Center Plate	16" Forged	Empty Load Brakes	Yes		
Trucks					
Capacity/Type	ASF Super Service Ride Master with bolted- only column wear plates.	-Wheels / Bearings	36" 1 Wear Class C Wheels 6-1/2 X 12 Roller Bearings		
Springs	3-11/16" Travel D-5	Roller Bearing Adapters	Hardened Crowns & Shoulders		
Side Bearings	ASF 4500LT Constant Contact	Brake Beams	#18 Unit Type		
Surface Prep					
Interior	Note 5				

OCPX 80350, 80365, 80369-80371, 80373-

80375

Quote Number Model Number Customer

2004/432

257-105J300 Occidental Chemical Corp File / Rev / Date / Engineer RFQ Date / Engineer

Number Of Cars

T05012A / 1 / 3-15-2006 / MLV

11/17/2004 / WJW

Paint, Stencil, Lining

Paint

Two Coat Blue/Gray Epoxy / Urethane (Hemple 4563 / 595)

Stencil

AAR / DOT / Yellow Reflective Decals / Commodity stencil

Lining

None NOTES

1. Cars are equipped w/ resilient wear liner package (i.e., horizontal bowl liner, coupler carrier wear plate, and brake beam guides)

2. Protective housing includes patented "Anti-Tampering Security System".

- 3. Cars are equipped w/ two brass grounding studs on diagonally opposite corners of top platform.
- 4. Cars will include a jacket recess in the side ladder area.
- 5. Internal (SP-7 brush off) blast. Purge car with nitrogen to a dew point of minus 20 degrees F with a 15# pad.
- 6. Vertical portions of the end handrails along w/ the end sill steps will be coated w/ anti-skid paint.
- 7. No lessee stencil.